

Title (en)

CONTROL CIRCUIT FOR AN ELECTROMAGNETIC RELAY

Title (de)

ANSTEUERSCHALTUNG FÜR EIN ELEKTROMAGNETISCHES RELAIS

Title (fr)

CIRCUIT DE COMMANDE D'UN RELAIS ÉLECTROMAGNÉTIQUE

Publication

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Application

EP 10798789 A 20101220

Priority

EP 2010070245 W 20101220

Abstract (en)

[origin: WO2012084002A1] The invention relates to a drive circuit (10) for an electromagnetic relay having a relay coil (11) and switch contacts, comprising a first switching device (13a), which is arranged between a first terminal of the relay coil (11) and a first voltage source (12a), a second switching device (13b), which is arranged between a second terminal of the relay coil (11) and a zero potential, and a control device (14) which is designed to produce a current flow through the relay coil (11) to close both switching devices (13a, 13b). In order to provide a drive circuit which, firstly, has the shortest possible response time and, secondly, can be produced constructively simply and therefore cost- effectively, a second voltage source (12b) be provided, which is connected via a third switching device (13c) to the first terminal of the relay coil (11), wherein the third switching device (13c) is arranged connected in parallel with the first switching device (13a), and the second voltage source (12b) has a higher voltage level than the first voltage source (12a), and the control device (14) is designed to produce a current flow through the relay coil (11), initially to close all three switching devices (13a, 13b, 13c) and, following the expiry of a predefined time period, firstly to open the third switching device (13c) again and secondly to keep the first and the second switching device (13a, 13b) closed.

IPC 8 full level

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CPC (source: EP US)

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